Haverhill, MA
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Nicholas Zuber

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EDUCATION

University of Massachusetts Lowell *Spring 2018*
Bachelor of Science in Computer Science, Minor in Mathematics *Major GPA: 3.54*

Relevant Courses: Data Structures, Algorithms Analysis, Object Oriented Design, Functional Programming, Discrete Mathematics, Operating Systems & Architecture, Probability and Statistics
Honors: Dean's List, UMass Amherst Book Award for Computer Science
Activities: Member of Modern JavaScript Society, Captain of Intramural Soccer Team
Hackathons: HackHavard, Hawkathon, HuskyHacks

SKILLS

Programming Languages & Frameworks
Proficient in: JavaScript, Node.js, React/Redux, React Native, C++, HTML5, CSS3
Experienced with: Python, C, PHP, Java, MySQL, jQuery, MIPS Assembly, Shell Script

EXPERIENCE

Robin *May 2016 – August 2016*

Software Engineer Intern
Tech Stack: JavaScript, React Native, Redux, Node.js, Git

- Helped build, maintain, and design mobile applications for Android and iOS platforms for thousands of users
- Utilized knowledge of Levenshtein string distance algorithm to build custom approximate string matching module derived with memory efficient alterations, to enhance user experience with search fields
- Carefully applied functional paradigms to take advantage of Redux and to produce testable, deterministic code

Veranda Outdoors *May 2015 – August 2015*

Lead Software Developer
Tech Stack: PHP, MySQL, JavaScript, HTML5, CSS3, Magento, Apache4

- Led a small team of developers to coordinate projects and work flows to increase productivity
- Adapted to the legacy software and seamlessly introduced modern software into the ecommerce platform
- Created practical and user friendly wholesale ordering platform for hundreds of important customers

University of Massachusetts Lowell *February 2015 – June 2015*

Software Engineer
Tech Stack: JavaScript, HTML5, CSS3, jQuery

- Combined knowledge of data structures and divide and conquer algorithmic techniques to create an optimized class scheduling application that is aimed to be used by hundreds of staff members
- Designed a modern and clean user interface for an easy-to-use and powerful experience
- Communicated with staff to build and design the ideal web application to fit their needs and help automate the class scheduling process

OPEN SOURCE PROJECTS

Needle *(Library)* *September 2015 – Present*

Tech Stack: JavaScript, Node.js

- Worked intimately with a wide variety of commonly used data structures (linked lists, hash maps, k-ary trees, etc.), as well as more esoteric, but useful, data structures (rolling hash, bit array, etc.)
- Produced a series of benchmarks to analyze the performance of individual components throughout the library and various flavors of unit testing for quality assurance
- Optimized software performance with added client and server side support for a flexible, lightweight product

MarkUp *(WebApp)* *August 2016 – Present*

Tech Stack: JavaScript, React, Redux, Node.js

- Developed and designed an online markdown platform that supports Kramdown and MathJax, allowing for simple and easy text editing for rich markdown applications
- Implemented a deterministic and stateful application that adheres to the functional paradigm using Redux

Material Paper *(React Module)* *April 2016 – May 2016*

Tech Stack: JavaScript, React, Node.js

- Built a versatile, and responsive component that is designed to seamlessly integrate into any React application
- Designed easily reusable settings and customizations so component variations can be painlessly distributed throughout an application